Docket No.: 13156-00044-US1

## **AMENDMENTS TO THE CLAIMS**

- Claim 1 (original): A process for preparing a ketone comprising the reaction of cyclododecatriene with dinitrogen monoxide to obtain cyclododecadienone.
- Claim 2 (original): A process as claimed in claim 1, wherein the dinitrogen monoxide source is at least one dinitrogen monoxide-containing offgas of at least one industrial process.
- Claim 3 (original): A process as claimed in claim 2, wherein the dinitrogen monoxide source is the offgas of an adipic acid plant and/or of a dodecanedioic acid plant and/or of a hydroxylamine plant and/or of a nitric acid plant operated with the offgas of an adipic acid plant and/or of a dodecanedioic acid plant and/or of a hydroxylamine plant.
- Claim 4 (currently amended): A process as claimed in <u>claim 1</u> any of claims 1 to 3, wherein cyclododecatriene is reacted with a gas mixture containing from 20 to 99.9% by weight of dinitrogen monoxide, based on the total weight of the gas mixture.
- Claim 5 (currently amended): A process as claimed in <u>claim 1</u> any of claims 1-to 4, wherein the dinitrogen monoxide or the gas mixture containing dinitrogen monoxide is used in liquid form.

Claim 6 (currently amended): A process as claimed in <u>claim 1</u> any of claims 1 to 5, wherein the reaction is carried out at a temperature in the range from 140 to 350°C and a pressure in the range from 1 to 1000 bar.

Claim 7 (currently amended): A process as claimed in <u>claim 1</u> any of claims 1 to 6, wherein the reaction

has a conversion of cyclododecatriene in the range from 1 to 80% at a selectivity based on cyclododecadienone of at least 90%.

Claim 8 (currently amended): A process as claimed in <u>claim 1</u> any of claims 1 to 7, wherein the cyclododecatriene is cis,trans,trans-1,5,9-cyclododecatriene and is reacted in (ii) with dinitrogen monoxide to give cyclododeca-4,8-dienone.

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Claim 9 (currently amended): A process as claimed in <u>claim 1</u> any of claims 1 to 8, wherein the cyclododecadienone obtained from the reaction of cyclododecatriene with dinitrogen monoxide is hydrogenated to obtain cyclododecanone.

- Claim 10 (original): A process as claimed in claim 9, wherein the hydrogenation is carried out in the presence of a hydrogenation catalyst at a temperature in the range from 0 to 250°C and a pressure in the range from 1 to 325 bar.
- Claim 11 (original): A process for preparing cyclododecanone, comprising the steps (I) and (II)
  - (I) reacting cyclododecatriene with dinitrogen monoxide to obtain cyclododecadienone;
  - (II) hydrogenating the cyclododecadienone obtained in (I) to obtain cyclododecanone.
- Claim 12 (original): A process as claimed in claim 11, wherein the dinitrogen monoxide source used is at least one offgas comprising dinitrogen monoxide from at least one industrial process.
- Claim 13 (original): A process as claimed in claim 12, wherein the dinitrogen monoxide source is the offgas of an adipic acid plant and/or of a dodecanedioic acid plant and/or of a hydroxylamine plant and/or of a nitric acid plant operated with the offgas of an adipic acid plant and/or of a dodecanedioic acid plant and/or of a hydroxylamine plant.
- Claim 14 (currently amended): A process as claimed in <u>claim 11</u> any of claims 11 to 13, wherein cyclododecatriene is reacted with a gas mixture containing from 20 to 99.9% by weight of dinitrogen monoxide, based on the total weight of the gas mixture.
- Claim 15 (currently amended): A process as claimed in <u>claim 11</u> any of claims 11 to 14, wherein the dinitrogen monoxide or the gas mixture containing dinitrogen monoxide is used in liquid form.

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Claim 16 (currently amended): A process as claimed in <u>claim 11</u> any of claims 11 to 15, wherein the reaction in (I) is carried out at a temperature in the range from 140 to 350°C and a pressure in the range from 1 to 1000 bar.

Claim 17 (currently amended): A process as claimed in <u>claim 11</u> any of claims 11 to 16, wherein the reaction in (I) has a conversion of cyclododecatriene in the range from 1 to 80% at a selectivity based on cyclododecadienone of at least 90%.

Claim 18 (currently amended): A process as claimed in <u>claim 11</u> any of claims 11 to 17, wherein the cyclododecatriene used is cis,trans,trans-1,5,9-cyclododecatriene and is reacted in (I) with dinitrogen monoxide to give cyclododeca-4,8-dienone.

Claim 19 (currently amended): A process as claimed in claim 11 any of claims 11 to 18, wherein the hydrogenation in (II) is carried out in the presence of a heterogeneous hydrogenation catalyst at a temperature in the range from 0 to 250°C and a pressure in the range from 1 to 325 bar.

Claim 20 (new): A process for preparing a ketone comprising the reaction of cyclododecatriene with dinitrogen monoxide to obtain cyclododecadienone wherein the dinitrogen monoxide source is the offgas of an adipic acid plant and/or of a dodecanedioic acid plant and/or of a hydroxylamine plant and/or of a nitric acid plant operated with the offgas of an adipic acid plant and/or of a dodecanedioic acid plant and/or of a hydroxylamine plant, wherein the dinitrogen monoxide or the gas mixture containing dinitrogen monoxide is used in liquid form, and wherein the cyclododecatriene is cis,trans,trans-1,5,9-cyclododecatriene and is reacted in (ii) with dinitrogen monoxide to give cyclododeca-4,8-dienone.